



## SSC Combined Higher Secondary Level (10+2) CHSL Exam 2015:-

### General Intelligence:-

1. Semantic Analogy
2. Symbolic/Number Analogy
3. Figural Analogy
4. Semantic Classification
5. Symbolic/Number Classification
6. Figural Classification
7. Semantic Series
8. Number Series
9. Figural Series
10. Problem Solving
11. Word Building
12. Coding and de-coding
13. Numerical operations
14. Symbolic operations
15. Trends
16. Space Orientation
17. Venn Diagrams
18. Drawing inferences
19. Punched hole/pattern-folding & unfolding
20. Figural Pattern – folding and completion
21. Embedded figures
22. Critical Thinking
23. Emotional Intelligence

### English Language:-

1. Spot the Error
2. Fill in the Blanks
3. Synonyms/Homonyms
4. Antonyms
5. Spellings/Detecting Mis-spelt words
6. Idioms & Phrases
7. One word substitution
8. Improvement of Sentences
9. Active/Passive Voice of Verbs
10. Conversion into Direct/Indirect narration
11. Shuffling of Sentence parts
12. Shuffling of Sentences in a passage
13. Cloze Passage
14. Comprehension Passage

### **Quantitative Aptitude:**

#### **ARITHMETIC**

Number Systems:-

Computation of Whole Number  
Decimal and Fractions  
Relationship between numbers

Fundamental arithmetical operations:-

Percentages  
Ratio and Proportion  
Square roots  
Averages  
Interest (Simple and Compound)  
Profit and Loss  
Discount  
Partnership Business  
Mixture and Alligation  
Time and distance  
Time and work

#### **ALGEBRA:-**

Basic algebraic identities of School Algebra (and their simple applications) e.g.

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Formulas for  $(a+b)^2$ ,  $(a-b)^2$ ,  $(a+b)^3$ ,  $(a-b)^3$ ,  $a^3-b^3$ ,  $a^3+b^3$ ,  $a^2-b^2$ ; if  $a+b+c=0$ , then  $a^3+b^3+c^3=3abc$  etc. and Elementary surds (simple problems)

Graphs of Linear Equations.

#### **GEOMETRY:-**

Familiarity with elementary geometric figures and facts:

Triangle and its various kinds of centres viz. Centroid, In-centre, Orthocenter, Circumcentre

Congruence and similarity of triangles

Circle and its chords, tangents, angles subtended by chords of a circle, common tangents to two or more circles.

### **MENSURATION:**

Triangle, Quadrilaterals

Regular Polygons (sum of the internal angles of a polygon)

Circle

Right Prism

Right Circular Cone

Right Circular Cylinder

Sphere, Hemispheres

Rectangular Parallelepiped

Regular Right Pyramid with triangular or square Base

### **TRIGONOMETRY:-**

Trigonometry (for acute angles  $\theta$  with  $0 \leq \theta \leq 90$ )

Trigonometric ratios

Degree and Radian Measures

Standard Identities like  $\sin^2 \theta + \cos^2 \theta = 1$  etc

Complementary Angles, Heights and Distances (simple problems only)

### **STATISTICAL CHARTS :-**

Use of Tables and Graphs:

Histogram

Frequency polygon

Bar-diagram

Pie-chart

**General Awareness:-**

Questions are designed to test the candidates general awareness of the environment around him and its application to society. Questions are also designed to test knowledge of current events and of such matters of everyday observation and experience in their scientific aspect as may be expected of an educated person. The test will also include questions relating to India and its neighbouring countries especially pertaining to History, Culture Geography, Economic Scene, General policy and scientific research.